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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/821,446	04/09/2004	Scott Allan Miller III	45568-00400	1346	
7590 09/25/2007 Travis C. Stephenson, Esq.			EXAMINER		
MARSH FISCHMANN & BREYFOGLE LLP Suite 411 3151 South Vaughn Way			NI, SUHAN		
			ART UNIT	PAPER NUMBER	
	Aurora, CO 80014			2615	
			MAIL DATE	DELIVERY MODE	
			09/25/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
•	10/821,446	MILLER, SCOTT ALLAN			
Office Action Summary	Examiner	Art Unit			
•					
The MAILING DATE of this communication app	Suhan Ni ears on the cover sheet with the c	2615 orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEE.	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>09 Ap</u>	<u>oril 2004</u> .				
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 3-8,15-19 and 27-32 is/are objected to 8) Claim(s) are subject to restriction and/or Application Papers	o. election requirement.				
 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/23/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

1. The Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be

directed to Group Art Unit 2615.

2. This communication is responsive to the claims filed 04/09/2004.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) The invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 1-2, 9, 12-14, 20, 23-26 and 33 are rejected under 35 U.S.C. 102(e) as being

anticipated by Fretz (U. S. Pat. App. – 2005/0047620).

Regarding claims 1-2, 14 and 25, Fretz discloses a hearing aid comprising: a microphone (206) to receive audio inputs and provide a response signal (208); a signal processor to process the response signal (236) to generate a transducer drive signal (210), wherein a portion of one of the response signal and the transducer drive signal is received over a feedback path (202) as a feedback signal; a transducer (210) to utilize the transducer drive signal to stimulate a component of the auditory system; phase shifter logic (248) to shift the phase of the feedback signal in a predetermined amount(240), without modification of signal gain characteristics, to achieve a non-zero net phase of the feedback signal over the feedback path as claimed.

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Regarding claims 9, 20, 26, Fretz further discloses the hearing aid, comprising: adaptive circuitry (244) to determine the phase of the feedback signal over the feedback path.

Regarding claims 12-13, 23-24 and 33, Fretz further discloses the hearing aid, wherein the phase shifter logic (248) is configured to shift the phase based on the patient's ability to detect audio queues generated by the phase shift to minimize the patient's detection of the phase shift (Fig. 2) as claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 10-11, 21-22 and 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fretz (U. S. Pat. App. 2005/0047620).

Regarding claims 10-11, 21-22 and 34-35, Fretz may not specially teach the phase shifting range as claimed. Since Fretz does not specially restrict the phase shifting range and providing a suitable range for the hearing aid to reduce noises is very well known in the art, it therefore would have been obvious to one having ordinary skill in the art at the time the invention was made to be motivated to provide a phase shifter with desirable shifting range, such as 200 degree for the hearing aid as an alternate choice, in order to provide a hearing aid with desirable noise cancellation capability for specific individual and/or under specific circumstances.

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Allowable Subject Matter

5. Claims 3-8, 15-19 and 27-32 are objected to as being dependent upon a rejected base

claim, but would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Suhan Ni whose telephone number is (571)-272-7505, and the

number for fax machine is (571)-273-7505. The examiner can normally be reached on Tuesday

and Thursday from 10:00 am to 8:00 pm, and may be reached on Monday, Wednesday and

Friday from 10:00 am to 8:00 pm. If it is necessary, the examiner's supervisor, Sinh N. Tran,

can be reached at (571)-272-7564.

8. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov/. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

9. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the group receptionist whose telephone number is (571)-272-2600, or

please see http://www.uspto.gov/web/info/2600.

8/28/2007

SUHAN NI